

isc N-Channel MOSFET Transistor

APT47N65BC3

FEATURES

- Drain Current -I_D=47A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}=650V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.07 \Omega (Max)$
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



UNIT

DESCRIPTION

 Designed for use in switch mode power supplies and general purpose applications.

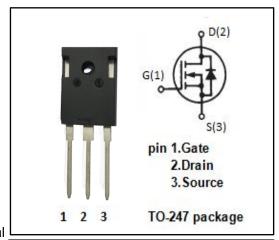


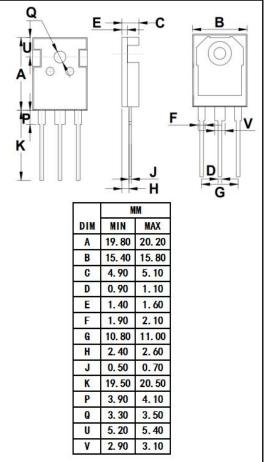
SYMBOL	DL PARAMETER	
V _{DSS}	Drain-Source Voltage	650
V _{GS}	Gate-Source Voltage-Continuous	±20
I _D	Drain Current-Continuous	47
I _{DM}	Drain Current-Single Pluse	141

V DSS	Diaiii-Source voltage	030	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	47	Α
I _{DM}	Drain Current-Single Pluse	rain Current-Single Pluse 141	
P _D	Total Dissipation @T _C =25℃	417	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.3	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	650		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 2.7mA	2.1	3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =30A		0.07	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0 V _{DS} = 650V; V _{GS} = 0@T _J =125°C		25 250	μА
V _{SD}	Forward On-Voltage	I _S =-47A; V _{GS} = 0		1.2	V

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